FIGURE 1

```
   1  cccggcactt ctcagtgagg ctctgtggct cacctaagaa accagcctcc cttgcaggca
  61  acgcctagct ggcctggtct ggaggctctc ttcaaatatt tacatccaca cccaagatac
 121  ggtcttgaga tttgactcgc atgattgcta tgggacaagt tttcatctgc agtttaaatc
 181  tgtttcccaa cttacattag gggtttggaa ttctagatcg tatttgaagt gttggtgcca
 241  cacacacctt aacacctgca cgctggcaac aaaaccgtcc gctctgcagc acagctgggg
 301  tcacctgacc tttctcctgt cccccccact tgagctcagt ggctgggcag caggggatgc
 361  atggccactg gcggccaggt gcagctctca gctggggtgt tcagaggacg cctgtgtcct
 421  cccctccccc atccctctgt cacccttgga ggcagagaac tttgcccgtc agtcccatgg
 481  ggaatgtcaa caggcagggg cagcactgca gagatttcat catggtctcc caggccctca
 541  ggctcctctg ccttctgctt gggcttcagg gctgcctggc tgcaggtgcg tccggggagg
 601  ttttctccat aaacttggtg gaagggcagt gggcaaatcc aggagccagc ccgggcttcc
 661  caaaccccgc ccttgctccg dacaccccca tccaccagga gggttttctg gcggctcctg
 721  ttcaatttct ttccttctag aaaccagcat ccaggcacag gaggggaggc ccttcttggt
 781  agcccaggct ttggcgggat tatttttcaa agaactttag gagtgggtgg tgctttcctg
 841  gcccccatgg ccctgcctgt gaggtcggac aagcgcaggg agtctggggc ctctcagagt
 901  gcaggaagtg cgcacagggt gctcccaggc tggggagcac aggtagggga cggtgcgtgg
 961  gggatggcgc ctggggcatg ggggatgggg tgtgggaaac ggcatgtggg gcgtagggga
1021  tggggtgtgg aggatcgggg gtggggatgg cgtgtggggt gtgggggatg ggccgtgggg
1081  gggtggggcc tgggaaacag catgtggggc atggggtgtg ggggtgaggt gtgggaaagt
1141  gtgtggggtg tggggatgg ggcatggaaa gggcgtgtgg ggtgcagggg atggggcatg
1201  gaggtgtggg ggatggggtg tgtggggtgt cgggatggg gcatgtgggg tgtgggggat
1261  ggggcatgga aaggcgtgtg gggtgcagag gatggggcat ggaggtctgg ggcatggggt
1321  gtgtggggtg tcggggatgg ggcatggaaa gggtgtgtgg ggtgtgggga tagggtcagg
1381  ggatggcgtg gggggtgtgg catggggatg gcacgtgtgg catggggatg gggatggggg
1441  gtggggcatg gccgagtggg gctggggctg ggaatggtga gtggggcatg gggatggcga
1501  gtaggggtg tggcgtgagg atggctagtg gggcgtgggg atggcgtgtg gggatggcga
1561  gtgggggtg ggctgtgagg dacagtgcct gggatgtggc tgcagcccta gctcacagca
1621  tggccttatg accccggcca ccttcctgcc caggcggggt cgctaaggcc tcaggaggag
1681  aaacacggga catgccgtgg aagccggggc ctcacagagg tgagcaggga ctgccactgg
1741  ttttgtcctg gggcccagtg ggggcaacat cacctccttc ccctcccatg gcaaagagcc
1801  agcccgcggg gtggctactg cagtgccccc caaggagggt gttccctgct cgagaggaag
1861  tgaccgctcc agcttggcct tccctgggac tggggtgcag gcgatttat cttctttgct
1921  ccattctgtt ccttccagat aatcgtgtgt tcttcatcag gtttttcctca gttcttgaga
1981  gcttttctga tgcaaatctg ctttcacccc agggcggtca ccggctctgc tcacaccagc
2041  ctccaagggt gtgggtgtcc cgggagtgtg ggtgtcccgg gggcgtgggt gtcccgggag
2101  tgtggggtgtc ccggggggcgt gggtgtcccg ggagtgtggg tgtcccgggg gcgtgggtgt
2161  cccgggagtg tgggtgtccc gggggagtgg gtgtcccggg agtgtgggtg tcccaggggc
2221  gtgggtgtcc cgggagtgtg ggtgtcccgg gggcgtgggt gtcccgggag tgtgggtgtc
2281  ccggaggcga gggtgtcccg ggagtgtggg tgtcccgggg gcgtgggtgt cccgggagtg
2341  tgggtgtccc ggggagtgg gtgtcccggg agtgtgggtg tcccaggggc gtgggtgtcc
2401  cgggagtgtg ggtgtcccgg gggcgtgggt gtcccgggag tgtgggtgtc cggagcgag
2461  ggtgtcccgg gagtgtgggt gtcccggggg cgtgggtgtc cggaggcga gggtgtccca
2521  ggagtgtggg tgtcccgggg gcgtgggtgt cccgggagtg tgggtgtccc ggaggcgagg
2581  gtgtcccggg agtgtgggtg tcccgggggc gtgggtgtcc cggaggcgag ggtgtcccag
2641  gagtgtgggt gtcccggggg cgtgggtgtc ccgggagtgt gggtgttcca gaggcgaggg
2701  tatcccagaa gtgtgagtgt cccgggggtg tgggtgtccc gggggcgtgg gtgtcccggg
2761  agtgtgggtg tcccgggggc gtgggtatcc cagaagtgtg agtgtcccag gggcgtgggt
2821  gtccgggggc gtgggtgtcc cgggggtgtg ggtgtcccgg gggtcgtggg tgtcccggga
2881  gcgtgggtgt cgggactgc aggacatgg gcctccctc ccactcctgc cgcccaggc
2941  acctcctgtg aggactcgga gtccgtgagt tcccacctcc ttgagcccga ttctttggtg
3001  tccccgcctg catcctcagc ctccttccaa accagaccag ttctctaggg gcgtcgacgt
3061  gtgaaactga ttttaaagaa aacaggcggt ggcctttctc tcggccccac gtggcccagt
```

FIGURE 1 (continued)

```
3121 agcgctcacc ttccgtccct tcttccgcgc tcagtaacca atttaggccg ctcctgcaga
3181 actcgggctc ctgcccaccg gcccacagcg tccacctgag gcctcttcct cccagcaaag
3241 gtcgtccctc cggaacgcgc ctcctgcggc ctctccagag cccctcccgc gcgtcctctc
3301 agccccgctc gcctcctccc ggggcctccc tctcccgcct gcccccaggc ccgtctccct
3361 cgcgggctga ggcaggttcg gcagcacggc gcccggggcg ggggtcactc tccaccaccg
3421 cgtggtgccc acagctcacg gcgctcccgg gtgacggtcc cctcggctgt agggcgtcct
3481 gaagagcggc ctgctcggag ctgagcgcac ggggttgcct gcccctgggc gtctctggcc
3541 ctcaccagcc ccgtcttccc atgggcaaaa cggcggtcct gtttgtccac aagtaaccgt
3601 cggggttacg gaggggccag gagctgcggc gggggggctgt gctctcagga ccggccccag
3661 gaggatccgc gcgaggtctg gagctctcag gggtcgcggg ggacagaggg gccccaagcg
3721 gaggcgggaa ggcggcagaa gcccaggacc gccaagagct ggcgaggaag cccgggggctc
3781 gctgtcgggg gagccgggca ggggccgcgc ctcggcacca ggacgcgagg cctgggaagg
3841 cggatctggc cgcgagcacg cggtgcgggt ggagacgcag ggatttggat ttccgcgggc
3901 gctgcacgga tttccacgcg cggttcacgt gggccccagg gggtgcccgg cacccggggc
3961 cgcgccgcct tctcctgccc ggcatcgacc cgcagcctca cgtttaccgc ggcgcccgca
4021 gccccttcg cccgcttccg cgcgtgcccc cgagcgcgcc ctcgggatca gcccccggaa
4081 gcagagaggc caggccggga aggatgggcg aacggggtgg ctgacccggg agcacggcag
4141 ggaggacacc cagccaggcc cgcgagcagc gccgctcccc tcctccagga cgggcgggaa
4201 cctgcgatgc ccccgccgcg tgggccgtgg ggcggtctcc gaggcactgg gcggggcacg
4261 cggtgggcgc ttcacggaac tcgcatttcc cagtcttcgt aacccaggag gaagcccacg
4321 gcgtcctgca ccggcgccgg cgcgccaacg cgttcctgga ggagctgcgg ccgggctccc
4381 tggagaggga gtgcaaggag gagcagtgct ccttcgagga ggcccgggag atcttcaagg
4441 acgcggagag gacggtgagc ccagcctcgg ggcgccccgc gcggacactg cacggcggcg
4501 gtgaaccagg ccgcgtgggg ccgcctgcgt ctctttggct gcggcctgtg ggcggcgaac
4561 acgcagcggc gcccgcgcgc gcgctctctc tgcgggggtc gctttccgcc cggggtgact
4621 ccgctttcct gggcgatgcc cccaccccca ggcacgcgct ctccccgtgc ggccgcaccg
4681 cgcatgccgg ttttcacatc agaaaatacg atttgcacaa gcacacttag ggtgtccccc
4741 ttaacttccc aagggagtcc ccccagtccc cgaagtccag ggcagcctgc gcatcgcaga
4801 cgcgcgcggc tcgcagaagg gacgtggtga gaagctggcc cacagcatgc caccagcggc
4861 acctcctcag ggcacgtgtc ggggagaaac aacacttagg gaccctggga ctttctccag
4921 ctcacgctca cgggtccacc tcacactacc aagatcacct caatagacgg acactcacac
4981 agggcacact tcacactcac aggtcacctc acactcacag gacacctcac actcacaggg
5041 cacacttcac actcacgggt cacctcacac tccaagatca cctaaagagg acacctcaca
5101 cagggcacac ttcacactca caggtcacac ctcacacaga tcatctcatt ctcacaggac
5161 acctccctct cacaggtcac ctcacactca caggacacct cacagaggtc acctcacacc
5221 cacaggacac ctcacagagg tcacctcaca cggggcacac ttcacactca ggtcacctca
5281 cacccacagg acacctcaca gaggtcacct cacacccaca ggacaactca cagaggtcac
5341 ctcacacagg acacctcaca aggtcacctt cacacccaca ggacacctca cactcatagg
5401 cacctcagtc ttacaggaca actcacactc acaggtcacc tatctcacag gacacctcac
5461 actcacaggt caccttactc tcacaggaca cctcacacag ggcacacttc actccacagg
5521 tcaccatacc tcacacagat cacctcatac tcacagatca cttcattcat tctcacagga
5581 tacctcacac tcagggcaca cttcacactc acaggtcaca cctcacacag atcatctcat
5641 tctcacagga cacctccctc tcacaggtca ccttacactc atctcacact cacaggtcgc
5701 cacacctcac actcacagga tgcctcacac tcacagaacc acatctcata tgcacaagac
5761 acctcacact caggacacct catgctcaaa gaagcctcac actcacagga ggtccagctg
5821 tctgaggcaa aggctaacat gacccttttcc agacaaattg aggatggtca tgcctagcat
5881 ttttatacac ctagttttga aagcatttct catctgttgt attctcacag cacccccgtga
5941 gtttaagttc aggtggccaa cagtttcttc agcaatcact tttttctgtg gagtgctttt
6001 gctgtttgtg gaatattttg catctgctac tgcaccctct ccccgtatgt gtggccaccc
6061 tgtcagaggt ggagctgtgg ctcagagcct gtgtacctcg tcccaggtcc acagctcagc
6121 gacagaagag tcaggttga acctcgggtg ttctgacttg ggagcaggaa atgtgtggtc
6181 acccatagtt ccagatgtcc tggggagggg ccaagattag aagaaaccta cctcagctcc
6241 agaggaaagt ctggcttcct gagcccaccc cgccagaccc aggtccaagt cccccaaccc
6301 cagttcatgg tgtgtccagt gcttaccgtt gggtgctctg gtgaaggtgc atctcacgag
6361 gcttgctctc ttgttccttc agaagctgtt ctggatttct tacagtggtg agtggatgat
```

FIGURE 1 (continued)

```
6421 caccaccagt cctgcctgca acccttctca gcttactgac accagcccac tccacagatg
6481 gggaccagtg tgcctcaagt ccatgccaga atgggggctc ctgcaaggac cagctccagt
6541 cctatatctg cttctgcctc cctgccttcg agggccggaa ctgtgagacg cgtaaggccc
6601 cactttgggt cccatatttg cagagggccc tggggagctg gtggaggtgg cctggccaac
6661 cgggctgcag ggtgcaacaa cctggtgggg tgtgtaggcc gggcattcag ggctcagccc
6721 agttggaaat tggtctaggt gacctttaaa tcccttccag tctgaggtct ttgacaggga
6781 cccaaggttc tgattatcag actcagtggc ccccttcgcg gtcccggccc tgggcaactt
6841 ctcagccctg gagactggcc cagttgagag tccctgtgtc ccgtgtgccc attccagatc
6901 ccacctagct aggtacccgt ttggtaaact tccccttctc ctactttcca ttacaaaggt
6961 ttgagggggtt tgtttttttt tttaaccatc tgaatattaa attaatcaca aagtttaggg
7021 cccccaacct cccttgggtt cagtaattca ctagaaggac acatagaaat ccaaatatcc
7081 actgagtgga tacactcaca ggtaccgttt attacagcaa aggatgcagg cttaagtctg
7141 cagagggacc agggacaagc ttccccttgt cctctcctgt ggggtcatgt ggacatcctt
7201 aattctccca gaatgacgtg tgacgagaac gtgggaagta ctgccaaact tggggaacgc
7261 tacgagcccc gtgtccagag gtttgatcag ggctcaatga catagaccca gctgaccagg
7321 cacgcatggc tgacctcagt ctcagcccct ccagagctac gccgataatg cggccaaggc
7381 cccaccatac atcacattgt cagctagacc atccagcatg gctcaaggcc caggtaaaca
7441 ccaacattcc ctcaggcaag accttccaag ggcttagcgg tcatttccca ggagccaagg
7501 caaaggctac cctttctctg gcacagcagt tcatccttga ccacccaaga ccacattctt
7561 acactgaatg agctctcctg tgcagcagcc attttcttct ctaagcagaa gagagcccag
7621 caagctggag gaggctgaag agagaggctt cctgctggtc atctgggtcc agaatgcctg
7681 gagatctctg ctcagccctg gtgcccagca gccctggtgt gcatcctgca gggcagcctt
7741 cccgccggag tcctggactt gctcagggcc actcccttg cccatgtcaa ccaaagtcag
7801 gctgccggtt ctgcttcttc tgtctgagcc catgaccagt gctgggacta actgtccccc
7861 aggcgggctc acggtggtac gaggccagct tggagaactg tctcagctct ctggtcctct
7921 cgtcagttgg gtctctgatt ggaaagtccc ttggacactt taccatcccc attggacttt
7981 cactttcccc caggctccca tcagctgctc ggaagagtgg tcacctgga ggccactgcc
8041 caccagccag gcaccccca aatgcaaccg cagccagcac tgccagccac tggcaaggct
8101 gttcagacat gtggctcctc tgatccacgc cttgtccttt ggatcagtcc acggagcagt
8161 gtgccaagct caggctctgt cacccacagc tcatgccacc ttccaggcag aacaccactg
8221 ctgacccagg ggcatggcca ccccgggggc tggcgtctcg ctgacccca gaagcccctc
8281 tcagggtgtc cccttcctgt ccccagacaa ggatgaccag ctgatctgtg tgaacgagaa
8341 cggcggctgt gagcagtact gcagtgacca cacgggcacc aagcgctcct gtcggtgcca
8401 cgagggggtac tctctgctgg cagacggggt gtcctgcaca cccacaggtg accaggcttc
8461 atgtcccagt cccagatgac accagtccct gtcccactag gattatctta ctggacaaaa
8521 gacgggtggg actggccttc acatctactg agcactaact atgcactgac caattgtgag
8581 gtgggatctg ggcaccaagg gtggcacagg ccagcagcga ccagtgacta ggatgggcac
8641 cctggggca atccctgaat ggcctcaggc ccctgccaa cttctaggca gaccagggga
8701 gccaagcaag gcactatctc acgtccaact gcccactcgc aggaatcctc cgccagggtt
8761 catgaatcta cttcggcaca gccaatgtct gtactgactg ctgcccactc tgcattccaa
8821 aactcgtaaa ggctcctggg aaaatgggat gtttctccaa accagcctgg aacgaatggg
8881 ctgcacttcc aaaagcaggg acaccccaca cccactgtct ctaaagaggc ggaacgtgcc
8941 caccctggcc acacagcctg ggactcagcc tgccacctcc tcgggcttcc tttctggccc
9001 aagaccttga ttgaagcaga tcaaaactaa gcatgggatc aaaacaacac agtttgattc
9061 atctttaggt agaatttcat tcaccttcta ctaaagtcaa acaacacatc ttctccctga
9121 aaagtgagca gagggcggtt ttaagacgta agccctctgt ttcctccaaa accagccctg
9181 accattgtct cctcagccag ccacttcttc aagggcctct catggccggg ccccaccagt
9241 caggcccagc cgaggccctg ccttccacca cccctgggcc ctgggagctc ctgctcctgg
9301 gggcctccca tagcctcggc ctcaaggcct ctcagaggat gggtgtttct gaatctttcc
9361 tagtggcacg ttcatccctc acaaatctct gcatctttct gactttgtt ttacacagtt
9421 gaatatccat gtggaaaaat acctattcta gaaaaagaa atgccagcaa accccaaggc
9481 cgaattgtgg ggggcaaggt gtgccccaaa ggggagtgtc catggcaggt aaggcttccc
9541 ctggcttcag gattccaagc cctgagggtc ttgaagcctt ttgaatgtga acaacagctc
9601 tggaagggaa aatgggcagg tcagcccaag cccacaggct ccaagtcagc acacctagca
9661 cctccagctc gcggcacccc catgctttta gtggggcaag gaaggagaaa agaaaacgac
```

FIGURE 1 (continued)

```
 9721 actcactgag ggtctaccct gtgcagagaa ccctgcgaga tgccccatcc gagttgtcac
 9781 gtcgtcctca cggttactct ttgaggtggg atctttgcct gatctttgca aaatcaggag
 9841 cattggatca aagctatgtg aagatcctgt gaggtgaaca gtgaaatctc acagcgacat
 9901 ttgtattctt gggccgtgcc caagagcacg tctcggctag agaggggcac agcctcccag
 9961 agccaggtct gagcagcttt gcctgggagg gatctgcaaa gaccccagga tttcagaaag
10021 aaattgtgca atgccagagg ttccttggca tgcccgggag ggcgagtcat cagagaaaca
10081 atgacagcaa tgtgacttcc acacctcctg tccccccgcc caggtcctgt tgttggtgaa
10141 tggagctcag ttgtgtgggg ggaccctgat caacaccatc tgggtggtct ccgcggccca
10201 ctgtttcgac aaaatcaaga actggaggaa cctgatcgcg gtgctgggtg ggtaccactc
10261 tcccctgtcc gaccgcggtg ctgggtgggt gccactcttc cctgtccgac cgcggtgctg
10321 ggtgggtgcc actctcccct gtccgaccgc ggtgctgggt gggtgccact ctcccctgtc
10381 cgaccgcggt gctgggtggg tgccactctc cgctgtccga ccgcggtgct gggtgggtac
10441 cactctcccc tgtctgaccg cagctctcaa gtgtctcagg ggctgtggct ctgggcttcg
10501 tgctgtcact tccacagaca gacagacatc cccaaaaggg gagcaaccat gctgggcacg
10561 actgcctgtg gcaccgtgct ctcagccact ttcccatgcc caaataaaac gataaaagac
10621 tgggggcttc tgcccatcct gcctcacttg accaagagcc cagaagagga tgcgacaccc
10681 agggcctcat gggaccaccg gctggcaggg gttctgctca ctgggtttat gggtgagacg
10741 agcactccca ggagggccac tgggccggga agaactgtgg agaatcgggg cacgccctgt
10801 cctcccagct gccagggcac agcatccctt ccccacctgc aacacccaga ccccagattc
10861 accccagttc acttgtcccc acacgagcca caggctgcca cctggggcag gctggcccac
10921 cttggggtta gatgcaggtc cccttgcccc agaaggagac tgcagcccct gcagacctag
10981 aaatggccac agcccatccc catgcaccag ggggtgaggt ggcaggtggt ggaaagggcc
11041 tgaggggggc ttcttccttc caggcgagca cgacctcagc gagcacgacg gggatgagca
11101 gagccggcgg gtggcgcagg tcatcatccc cagcacgtac gtcccgggca ccaccaacca
11161 cgacatcgcg ctgctccgcc tgcaccagcc cgtggtcctc actgaccatg tggtgcccct
11221 ctgcctgccc gaacggacgt tctctgagag gacgctggcc ttcgtgcgct tctcattggt
11281 cagcggctgg ggccagctgc tggaccgtgg cgccacggcc ctggagctca tggtcctcaa
11341 cgtgccccgg ctgatgaccc aggactgcct gcagcagtca cggaaggtgg gagactcccc
11401 aaatatcacg gagtacatgt tctgtgccgg ctactcggat ggcagcaagg actcctgcaa
11461 gggggacagt ggaggcccac atgccaccca ctaccggggc acgtggtacc tgacgggcat
11521 cgtcagctgg ggccagggct gcgcaaccgt gggccacttt ggggtgtaca ccagggtctc
11581 ccagtacatc gagtggctgc aaaagctcat gcgctcagag ccacgcccag gagtcctcct
11641 gcgagcccca tttcccctagc ccagcagccc tggcctgtgg agagaaagcc aaggctgcgt
11701 cgaactgtcc tggcaccaaa tcccatatat tcttctgcag ttaatggggt agaggagggc
11761 atgggaggga gggagaggtg gggagggaga cagagacaga aacagagaga gacagagaca
11821 gagagagact gagggagaga ctctgaggac atggagagag actcaaagag actccaagat
11881 tcaaagagac taatagagac acagagatgg aatagaaaag atgagaggca gaggcagaca
11941 ggcgctggac agaggggcag gggagtgcca aggttgtcct ggaggcagac agcccagctg
12001 agcctcctta cctcccttca gccaagcccc acctgcacgt gatctgctgg ccctcaggct
12061 gctgctctgc cttcattgct ggagacagta gaggcatgaa cacacatgga tgcacacaca
12121 cacacgccaa tgcacacaca cagagatatg cacacacacg gatgcacaca cagatggtca
12181 cacagagata cgcaaacaca ccgatgcaca cgcacataga gatatgcaca cacagatgca
12241 cacacagata tacacatgga tgcacgcaca tgccaatgca cgcacacatc agtgcacacg
12301 gatgcacaga gatatgcaca caccgatgtg cgcacacaca gatatgcaca cacatggatg
12361 agcacacaca caccaagtgc gcacacacac cgatgtacac acacagatgc acacacagat
12421 gcacacacac cgatgctgac tccatgtgtg ctgtcctctg aaggcggttg tttagctctc
12481 acttttctgg ttcttatcca ttatcatctt cacttcagac aattcagaag catcaccatg
12541 catggtggcg aatgcccca aactctcccc caaatgtatt tctcccttcg ctgggtgccg
12601 ggctgcacag actattcccc acctgcttcc cagcttcaca ataaacggct gcgtctcctc
12661 cgcacacctg tggtgcctgc cacccactgg gttgcccatg attcattttt ggagcccccg
12721 gtgctcatcc tctgagatgc tcttttcttt cacaattttc aacatcactg aaatgaaccc
12781 tcacatggaa gctatttttt aaaaacaaaa gctgtttgat agatgtttga ggctgtagct
12841 cccaggatcc
```

FIGURE 2

MVSQALRLLCLLLGLQGCLAAGGVAKASGGETRDMPWKPGPHRVFVTQEEAHGVLHRRRRANAFLE
ELRPGSLERECKEEQCSFEEAREIFKDAERTKLFWISYSDGDQCASSPCQNGGSCKDQLQSYICFCLPAF
EGRNCETHKDDQLICVNENGGCEQYCSDHTGTKRSCRCHEGYSLLADGVSCTPTVEYPCGKIPILEKRN
ASKPQGRIVGGKVCPKGECPWQVLLLVNGAQLCGGTLINTIWVVSAAHCFDKIKNWRNLIAVLGEHD
LSEHDGDEQSRRVAQVIIPSTYVPGTTNHDIALLRLHQPVVLTDHVVPLCLPERTFSERTLAFVRFSLVS
GWGQLLDRGATALELMVLNVPRLMTQDCLQQSRKVGDSPNITEYMFCAGYSDGSKDSCKGDSGGPH
ATHYRGTWYLTGIVSWGQGCATVGHFGVYTRVSQYIEWLQKL MRSEPRPGVLLRAPFP